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On a Second Collection of Indo-Malayan Cirripedes  
from the Raffles Museum

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In an earlier paper (Nilsson-Cantell, 1934) I described a collection of Cirripedes from the Raffles Museum. The present paper, which deals with material received subsequently, may be regarded as a supplement. The collection consists partly of the same species as before, but from new localities, and partly of species not represented in the earlier collection. The forms not previously recorded are:—

*Oxynaspis celata* Darwin, 1854.  
*Octolasmis cor* (C. W. Aurivillius, 1893).  
*Octolasmis angulata* (C. W. Aurivillius, 1893).  
*Chthamalus withersi* Pilsbry, 1916.  
*Balanus amaryllis nivea* Gruvel, 1905.  
*Balanus socialis* Hoek, 1883.  
*Chelonibia testudinaria* (L. 1758).

Mus. 13, 1937.

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Genus *Oxynaspis*.*Oxynaspis celata* Darwin, 1854.

*New locality.*— $3^{\circ} 48' 10''$  N. Lat.,  $100^{\circ} 14' 50''$  E. Long.  
Depth 78 m. Some specimens on an Anthipatharian. From telegraph cable.

Some of these specimens of *O. celata* agree well with Annandale's subspecies *indica*. Yet it is impossible to decide if *indica* is really distinct from typical *O. celata*. As stated by Broch (1922) this species is "highly variable", as I also have found (1922) when studying material from Japan. Richer material from various localities is necessary to clear up this question.

Genus *Heteralepas*.*Heteralepas (Heteralepas) japonica* (C. W. Aurivillius, 1893).

For syn. see Nilsson-Cantell, 1927.

*New locality.*— $6^{\circ} 22' 45''$  N. Lat.,  $97^{\circ} 57' 42''$  E. Long.; Depth: 137 m.; 13. XII. 33. Some specimens from telegraph cable together with *Balanus amaryllis euamaryllis*.

*Distribution.*—Japanese-Malayan waters, Indian Ocean.

Genus *Octolasmis*.*Octolasmis cor* (C. W. Aurivillius, 1893).

For syn. see Annandale, 1909.

*New locality.*—Sandakan, British North Borneo. May 1935. Several specimens from gills of the crabs *Neptunus pelagicus* and *Scylla serrata*.

*Distribution.*—Indian Ocean, Malay Archipelago.

*Octolasmis angulata* (C. W. Aurivillius, 1893).

For syn. see Nilsson-Cantell, 1934.

*New locality.*—Sandakan, British North Borneo, May 1935. Several specimens on gills of *Neptunus pelagicus*.

*Distribution.*—Indian Ocean, Malay Archipelago.

Genus *Chthamalus*.*Chthamalus withersi* Pilsbry, 1916.

*New localities.*—Sultan Shoal, near Singapore. Dec. 1933. Two specimens. Seletar, Singapore. July, 1934. Several specimens on wood.

*Distribution.*—Indian Ocean, Malay Archipelago.

Genus *Balanus*.*Balanus amphitrite variegatus* Darwin, 1854.

*New locality.*—Sultan Shoal, near Singapore. One specimen.

*Distribution.*—Indian Ocean, Malay Archipelago, New South Wales, New Zealand.

ON A SECOND COLLECTION OF INDO-MALAYAN CIRRIPEDES

*Balanus amphitrite rafflesii* Nilsson-Cantell, 1934.

*New locality.*—Seletar, Singapore, July, 1934. Several specimens on mangrove. This subspecies, first described from Pulau Sakra near Singapore (Nilsson-Cantell, 1934), is here represented by several specimens from a locality not far from the type-locality. This subspecies is well separated from the many described subspecies of *B. amphitrite*. Little need here be added to the original description. As regards the scutum, which is well characterized by the strongly developed adductor ridge, it may be noted that sometimes, as this material shows, the pit for the lateral depressor muscle is more distinctly limited than the figure of the type-specimen indicates (Nilsson-Cantell, 1934, text fig. 5b).

*Balanus amaryllis* Darwin, 1854 *forma euamaryllis* Broch, 1922.

*New locality.*—6° 22' 45" N. Lat. 97° 57' 42" E. Long. Depth: 130–137 m. 13. XII. 1933. Several full grown specimens from cable.

*Distribution.*—Indian Ocean, Malay Archipelago, China, Japan, Northern Coast of Australia.

These specimens are large and often overgrown by sponges. The shell was originally described as conical with a narrow orifice. These specimens have more cylindrical walls and consequently wide orifices. For the rest they are typical.

*Balanus amaryllis* Darwin, 1854 *forma nivea* Gruvel, 1905.

*New locality.*—Penang Strait. Depth: 3–7 m. May 1935.

Several specimens on snail shells.

*Distribution.*—Indian Ocean, Malay Archipelago.

*Balanus socialis* Hoek, 1883.

*New locality.*—Sandakan, British North Borneo, May 1935. Some specimens on the abdominal segments of the crab *Scylla serrata*.

*Distribution.*—Malay Archipelago.

Genus *Chelonibia*.

*Chelonibia testudinata* (Linné, 1758).

*New locality.*—Singapore. Some specimens from the shell of *Eretmochelys imbricata*.

*Distribution.*—Tropical and temperate seas.

*Chelonibia patula* (Ranzani, 1817).

*New localities.*—Morib, Selangor, Dec. 1934. Two specimens on the carapace of a crab (*Eucrata* sp.).

Siglap, Singapore. Two specimens on the thorax of the crab *Podophthalmus vigil*.

*Distribution.*—Mediterranean, Atlantic, Malay Archipelago, Australia.

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LITERATURE

ANNANDALE N. 1909. An account of the Indian Cirripedia Pedunculata. Pt. I. Fam. Lepadidæ (s.str.)—*Mem. Ind. Mus.*, II. No. 2, Calcutta.

AURIVILLIUS, C. W. S. 1893. Neue Cirripedien aus dem Atlantischen, Indischen und Stillen Ocean.—*Overs. K. Sv. Vet. Akad. Forhandl.*, 1892. No. 3, Stockholm.

BROCH, H.J., 1922. Papers from Dr. Th. Mortensen's Pacific Expedition 1914–16; X. Studies on Pacific Cirripeds.—*Vidensk. Meddel. Dansk. naturh. Foren.*, Bd. 73, Odensee.

NILSSON-CANTELL, C. A. 1921. Cirripeden-Studien.—*Zool. Bidrag fr. Uppsala*, Bd. VII, Uppsala.

1927. Some Barnacles in the British Museum (Nat. Hist.).—*Proc. Zool. Soc.* Pt. 3, London.

1934. Indomalayan Cirripeds in the Raffles Museum, Singapore.—*Bull. Raffles Museum*, No. 9, Singapore, Straits Settlements.

